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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,804	09/23/2003	Sanjeev Bagewadi	SUN-P9169	8162

32291 7590 01/24/2006

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EXAMINER	
DARE, RYAN A	

ART UNIT	PAPER NUMBER
2186	

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/669,804	BAGEWADI, SANJEEV	
	Examiner	Art Unit	
	Ryan Dare	2186	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *23 September 2003*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-20* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-20* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *23 September 2003* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-20 are rejected under 35 U.S.C. 102(e) as being anticipated by Kamitani et al., US PG Pub 2003/0065889.

3. With respect to claim 1, Kamitani et al. teach a method for reading ahead data pages from a network based file system, said method comprising:

determining whether a number of available data pages resident to a client node satisfied a defined condition associated with a first value, in par. 122, with reference to figs. 13A-13C; and

initiating a read-ahead operation for a second value of data pages from said network based file system provided said number of available data pages satisfies said defined condition, in par. 121, with reference to figs. 13A-13C,

wherein said second value of data pages can be fetched from said network based file system before an application operating on said client node consumes said first value of data pages, par. 123 and par. 130.

Note that the first embodiment of Kamitani et al. teaches continuously reading one block ahead into the cache memory from the main storage device. Therefore, with reference to claim 1, the number of available data pages that triggers the read ahead is one.

4. With respect to claim 2, Kamitani et al. teach the method as described in claim 1, wherein said defined condition is that said number of available data pages resident to said client node is less than said first value, in the second embodiment, described in par. 134. In this embodiment, data is read ahead if the number of available pages is less than the value stored in the parameter register.

5. With respect to claim 3, Kamitani et al. teach the method as described in claim 1, wherein said defined condition is that said number of available data pages resident to said client node is equal to said first value, in the first embodiment, described in pars. 121-123. The read-ahead operation takes place when the number of available data pages is equal to 1.

6. With respect to claim 4, Kamitani et al. teach the method as described in claim 1, wherein said defined condition is that said number of available data pages resident to said client node is less than or equal to said first value, in the second embodiment, described in par. 134. In this embodiment, data is read ahead if the number of available pages is less than the value stored in the parameter register. The second embodiment behaves like the first embodiment when the parameter is 1. In this special case, data is read ahead exactly one block at a time.

7. With respect to claim 5, Kamitani et al. teach the method as described in claim 1, further comprising:

receiving said second value of data pages from said network based file system for providing to said application, in pars. 122 and 130; and

adding said second value of data pages to said number of available data pages resident to said client node, in pars. 122 and 130, with reference to figs. 13A-13C.

8. With respect to claim 6, Kamitani et al. teach the method as described in claim 1, further comprising:

providing a data page to said application operating on said client node in response to receiving a data page request from said application, in par. 99; and

subtracting a value of one from said number of available data pages resident to said client node, in the first embodiment as shown in figs. 13A-13C, where the number of available data pages is decreased by one until you only have one data page left, which triggers the read-ahead operation.

9. With respect to claim 7, Kamitani et al. teach the method as described in claim 1, further comprising:

receiving a third value of data pages from said network based file system for providing to said application, said third value greater than said first value, in the second embodiment, described in par. 134 and par. 136, where any number of pages can be read-ahead corresponding to the value in the parameter register.

10. With respect to claims 8-14, Applicant claims a computer readable medium having computer readable code embodied therein that performs the method of claims 1-7, and is therefore rejected using similar logic.

11. With respect to claims 15-20, Applicant claims a computer system comprising a processor; a data bus coupled to said second processor; and a memory device coupled to communicate with said processor for performing the method of claims 1-6, and is therefore rejected using similar logic. Kamitani et al. disclose a processor; a data bus coupled to said second processor; and a memory device coupled to communicate with said processor in fig. 7, numerals 1, 7, and 2, respectively.

Conclusion

12. The prior art made of record on form PTO-892 and not relied upon is considered pertinent to applicant's disclosure. Applicant is required under 37 C.F.R. § 1.111(c) to consider these references fully when responding to this action. The documents cited therein teach similar read-ahead caching systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan Dare whose telephone number is (571)272-4069. The examiner can normally be reached on Mon-Fri 9:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Kim can be reached on (571)272-4182. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ryan A. Dare
January 19, 2006

MATTHEW D. ANDERSON
PRIMARY EXAMINER